1024-20-203   **Ákos Seress*** (`akos@math.ohio-state.edu`), The Ohio State University, Department of Mathematics, 231 W. 18th Avenue, Columbus, OH 43210, and **Keyan Yang**. *Orbit equivalent permutation groups.* Preliminary report.

Two permutation groups on the same underlying set Ω are called orbit equivalent if they have the same orbits in their action on the power set of Ω. About ten years ago, the first author found all pairs of primitive orbit equivalent groups. In this talk we shall describe recent efforts toward the characterization of transitive orbit equivalent pairs. (Received January 08, 2007)